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PN - JP6278234 A 19941004
PD - 1994-10-04
PR - JP19930069872 19930329
OPD - 1993-03-29
TI - PRODUCTION OF FRTP MOLDED PRODUCT AND PREFORM
IN - NISHIMURA AKIRA; HONMA KIYOSHI
PA - TORAY INDUSTRIES
IC - B32B5/00 ; C08J5/24

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TI - Prodn. of FRP moulding useful for bicycle frame - by covering core material e.g. polyethylene@ tube with tubular reinforcing fibre base and tubular thermoplastic resin fibre base material
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PA - (TORA) TORAY IND INC
IC - B32B5/00 ; C08J5/24
AB - J06278234 A preform is prepd. by covering a core material (e.g., rods or tubes made from polyethylene) with a tubular reinforcing fibre base material (e.g., carbon, polyaramid yarns) and a tubular thermoplastic resin fibre base material (e.g., nylon 6, 66 etc. yarns).
- Specifically reinforcing material and the thermoplastic base material are alternately covered, and pref. are cords. The reinforcing material is a 2-axial or 3-axial braid which contains reinforcing fibre yarns arranged at an angle of +/- alpha degree to the length direction.
- Prodn. of a FRTP moulding involves placing the preform into a mould, and heating to melt the thermoplastic base material whereby the melted base material is impregnated into the reinforcing base material. Pref., the heating is carried out while a pressure is applied to the inside of the core material.
- USE/ADVANTAGE - The FRTP (fibre reinforced thermoplastic) moulding is useful for tennis racket frames, golf shafts, ski stocks, baseball bats, etc., and has high mechanical properties with less irregularities. The prod. is efficient. (Dwg.0/1)
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TI - PRODUCTION OF FRTP MOLDED PRODUCT AND PREFORM
AB - PURPOSE: To efficiently produce an FRTP product using a preform capable of obtaining the FRTP molded product excellent in physical properties and reduced in irregularity.
- CONSTITUTION: A preform constituted by alternately winding carbon fiber braids and nylon braids around a rubber tube is introduced into a mold and heated to melt the nylon braids and the molten nylon resin of the nylon braids is infiltrated in the carbon fiber braids to obtain an FRTP molded product.
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